

POWERPATH™ NAC POWER SUPPLIES



Description

The Wheelock Series PS-6 and PS-8 are 24VDC, filtered and regulated, supervised remote power supply/battery chargers are used for supervision and expanded power driving capability of Fire Alarm Notification Appliance Circuits. The PS-6 provides 6 amps of power distributed across 4 outputs, while the PS-8 provides 8 Amps across 4 output. In addition the PS-8 provides additional room in the chassis for accessories like an Addressable Control Module, with mounting studs.

The Power Supplies may be connected to any 12V or 24V (FWR or DC) Fire Alarm Control Panel (FACP) by using a Notification Appliance Circuit (NAC) or a "Dry Contact". Primary applications include NAC expansion (supports ADA requirements) and auxiliary power to support system accessories. This unit provides filtered and regulated 24VDC, up to four (4) Class "B", two (2) Class "A", or two (2) Class "B" and one (1) Class "A" Notification Appliance Circuits. With the optional plug-in PS-EXP module the unit supports (8) Class "B" or (4) Class "A" Notification Appliance Circuits. Additionally, an auxiliary power output of 2.5 Amps (disconnected upon AC power loss or an alarm condition) or up to 0.240 A of constant power on the PS-8 and 0.075 A of constant power on the PS-6.

The Wheelock Power Supplies can accommodate 7 or 12 AH batteries inside its lockable chassis. Using an external battery cabinet it can charge up to 33 AH batteries (pending UL testing). Two FACP NAC circuits or two "Dry" contact initiating circuits can be connected to the inputs. These inputs can then be directed to control supervision and power delivery to any combination of the four (4) outputs. Each output is rated at 3.0 Amps (Class "B") or (Class "A") and can be programmed to generate a steady or Code 3 Temporal Horn sound and a strobe output under alarm condition. Total load for the PS-6 and PS-8 NAC circuits must not exceed the power supplies rated output.

The Power Supplies under non-alarm condition provides independent supervision for Class "A" and Class "B" FACP NAC circuits. In the event of circuit trouble, the FACP will be notified via the POWERPATH steered input (IN1 or IN2). In addition there are two sets of trouble reporting terminals, one used for AC power loss reporting and the other for all troubles. The AC power loss reporting, on the common trouble terminals and on IN1 or IN2, can be delayed for either 30 seconds or 170 minutes. The AC power loss terminals will always report the trouble within 1 second after loss of AC power.

The PS-6 and PS-8 Power Supplies are UL Listed under UL Standard 864, 9th Edition to be used with any 24 volt Listed Regulated notification appliances. They include the capability to synchronize Wheelock strobes and horns and to silence the horn signal when horn/strobes are operating on two wires.

Approvals

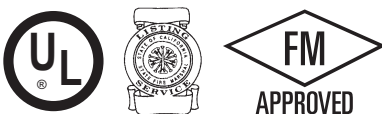
- Approvals Include: UL Standard 864, 1481, California State Fire Marshal (CSFM), Factory Mutual (FM)
- Compliant with NFPA 72

Inputs

- 120VAC, 50/60Hz, 4.25 Amps (PS-6/8) and 5.32 Amps (PS-8) Operating Power in Alarm
- 240VAC, 60Hz, 2.42 Amps (PS-6E) and 3.22 Amps (PS-8E) Operating Power in Alarm
- 24VDC Battery Backup Connection
- Two (2), 12V or 24V NAC Initiating Circuits (8-33V at 5mA) FWR or DC
- Two (2) "Dry" Contact initiating Circuits
- Accepts two (2) Class "A" or two (2) Class "B" circuit inputs
- Built in battery charger for sealed lead acid or gel type batteries

Outputs

- NAC outputs are 24VDC, 3.0 Amps each, power limited
- 8 Amps on PS-8 and 6 Amps on the PS-6 total alarm current



- Capable of four (4), Class "B" circuits
- Capable of two (2) Class "A" circuits
- Capable of one (1) Class "A" circuit and two (2) Class "B" circuits
- Capable of (8) Class "B" or four (4) Class "A" circuits with optional PS-EXP module
- Temporal (Code 3), constant voltage output, Wheelock Sync output or True input to output follower mode
- Built-in Wheelock synchronization mode that can be fed to any or all of the output circuits
- Input and output can be synchronized with "IN>OUT SYNC" mode (DSM, 2nd POWERPATH™ or FACP with synchronization protocol is required)
- Audible silence capability
- Filtered and electronically regulated output
- 2.5 Amp auxiliary power limited output with reset capability. (Removed upon AC loss or alarm. Automatic reset 30 seconds after AC power returns or the alarm condition is over) or 0.075 Amps (PS-6) or 0.240 Amps (PS-8) of auxiliary power limited output which remains on during AC loss or an alarm condition when configured for 24 hour battery backup

Supervision

- Compatible with 12V or 24V (FWR or DC) FACP
- Signaling appliance circuits are supervised and steered to either IN1 or IN2
- 10K Ohm, 1 Watt (Wheelock Model #MPEOL) End of Line Resistor (EOLR) for supervision of all outputs
- 37 distinguishable trouble diagnostics
- AC loss trouble reported over a separate set of contacts (delay of 1 second)
- All troubles are reported over the common trouble contacts (AC loss can have a delay of 30 seconds or 170 minutes)
- Automatic switchover to standby battery when AC fails
- Thermal and short circuit protection with auto reset
- Input and output status LED indicators
- AC fail supervision
- Battery presence and low battery supervision
- Ground Fault Detection, with diagnostics to indicate which circuit fault is on
- Latching LED's for NAC trouble annunciation and Diagnostic trouble LED's (latching can be disabled)

Power

- Not Battery Dependent
- Automatic switch over to standby batteries when AC fails
- Supports sealed lead acid or gel type batteries
- Fused battery protection
- Thermal and short circuit protection with auto reset
- Supports both 7AH or 12AH batteries in the same cabinet

POWERPATH™ Operating Modes (refer to Installation Manual):

Normal Mode: Provides constant 24 VDC output upon initiation by a voltage to input IN1 or IN2 or by a contact opening on DRY1 or DRY2. The unit returns to standby mode when the input is deactivated.

Wheelock Sync Mode: Provides signals for synchronization of patented Wheelock audible and strobe notification appliances. Audibles can also be silenced in this mode while the strobes continue to flash.

In>Out Sync Mode: Accepts a synchronization signal on the input to provide a coded output or synchronized output. This signal may come from a FACP, another POWERPATH or a Wheelock DSM synchronization module. Caution: Do not use strobes on coded output circuits.

True Input Follower Mode: Accepts a coded signal on the input to provide a coded output with the same timing as the input. The signal may come from a FACP, another POWERPATH or other coded source. Caution: Do not use strobes on coded output circuits.

Temporal Mode: Codes the output voltage in a code-3 temporal pattern to drive audible appliances such as horns, bells or chimes. Caution: Do not use strobes on coded output circuits.

Specifications and Ordering Information

Model Number		Order Code	Input Voltage/Current	Approvals		
				UL	CSFM	FM
PS-6		105530	6 amp, red enclosure	X	X	X
PS-6B		100257	6 amp, black enclosure	X	X	X
PS-8		105531	8 amp, red enclosure	X	X	X
PS-8B		105830	8 amp, black enclosure	X	X	X
PS-6EXP		105083	6 amp power supply with preinstalled expansion module	X	X	X
PS-8EXP		105084	8 amp power supply with preinstalled expansion module	X	X	X
PS-EXP		105534	4 class B or 2 class A expansion module	X	X	X
PS-EXP-RETRO		105527	Field upgrade kit for models prior to January 2010 [#]	X	X	X
Input Circuit			Input Voltage and Current	X= Approved *= Pending #=Contact Technical Support for additional information on upgrade options		
Input voltage Range			8 to 33 VDC			
Input Current @ 12 VDC			0.005 amps			
Input Current @ 24 VDC			0.005 amps			
Output Circuit			Output Voltage and Current			
Four (4) Class B or			24 VDC @ up to 3 amps per curcuit			
Two (2) Class A or						
One (1) Class A and Two (2) Class “B” or						
8 Class B or 4 Class A (optional PS-EXP module necessary)						
Continuous duty up to 3 Amps per circuit, up to 4 Amps maximum per panel						
Standby Current			0.129 Amps			
Alarm Current			0.129 Amps			
Primary PS-6 (120 VAC models)			105 to 130 VAC, 50/60 Hz @ 4.25 Amps			
Primary PS-8 (120VAC models)			105 to 130 VAC 50/60 Hz @ 5.32 Amps			
Primary PS-6E (240 VAC models)			210 to 260 VAC, 50/60 Hz @ 2.42 Amps			
Primary PS-8E (240 VAC models)			210 to 260 VAC 50/60 Hz @ 3.22 Amps			
Secondary Power Charging Capacity			32 Amp hours @ 0.750 Amps per hour			
Enclosure can house up to two 12 AH batteries						
Aux Output						
CP Mode	PS-6 up to 75 mA		PS-8 up to 250 mA			
MP Mode	2.5A during non alarm					
Model	Dimensions		Weight	Comments		
PS-6/PS-6B	17”H x 13”W x 3.5”D		11.5lbs. (Ship) 9.4lbs (Unit)	Small profile		
PS-8/PS-8B	17”H x 15”W x 5.5”D		17.7lbs (Ship) 15.6lbs (Unit)	Additional room for modules		
PS-EXP	4.3”H x 3.7”W x 1”D		1lb. (Ship & Unit)	Plugs into main pcb on all models		

Architects and Engineers Specifications

The power supply shall be Wheelock POWERPATH™ Series PS-8, or equivalent. The unit shall be stand alone power supply intended for powering fire alarm notification appliances via its own Notification Appliance Circuit(s) (NAC). The unit shall be UL 864 Listed for power limited operation of outputs and comply with NFPA 70 (NEC), article 760.

The power supply shall support a full 8A of notification power even if the battery is in a degraded mode and only AC power is connected.

The power supply shall be activated by a standard Notification Appliance Circuit (NAC) from any Fire Alarm Control Panel (FACP) or a "Dry contact" opening. The units shall be 8 ampere, 24 VDC, regulated and filtered, supervised remote power supply/charger. It shall operate over the voltage range of 8 to 33 VDC or FWR. The primary application of the unit shall be able to expand fire alarm system capabilities for additional NAC circuits to support ADA requirements and to provide auxiliary power to support system accessories or functions. The power supply shall provide four Class "B", two Class "A", or two Class "B" and one Class "A" NAC circuit(s). Eight Class "B" or Four Class "A" circuits shall be available with an optional PS-EXP module. The PS-8 unit shall supply up to 240 mA of auxiliary power that is available during both non-alarm and alarm or auxiliary power of not less than 2.5A at 24 VDC during non-alarm. The power supply shall be capable of charging batteries of up to 33 ampere hours per NFPA 72 at maximum rate of 0.750 Amps per hour.

Input activation options shall be from not less than two NAC circuits or Dry Contact closures. These inputs shall have the capability of being directed to any combination of the four NAC circuit outputs. Each NAC circuit output shall be rated at 3 amperes for Class "B" applications or 3 amperes each for Class "A". The outputs shall be programmable to generate a steady or Temporal (Code 3) output and or a synchronized strobe or horn output. The power supply shall provide independent loop supervision for either Class "A" or Class "B" FACP NAC circuits and shall have the capability to "steer" all alarm or trouble conditions to either incoming NAC circuit. The units shall have common trouble terminals. The power supply shall be powered from a 120 VAC source with a current consumption of xx amperes max. The unit shall incorporate short circuit protection with auto reset. The power supply shall incorporate a built in battery charger for lead acid or gel type batteries with automatic switchover to battery back up in the event of AC power failure. The charger shall incorporate fused protection for the batteries and have the ability to report low battery and/or no battery condition(s). Standby current for battery back up shall be 0.129 Amps max. The power supply shall have the ability to latch trouble LED's so the circuit in trouble can be identified. The cabinet dimensions shall be 17"H x 15"W x 5.5"D.

The power supply shall be Wheelock POWERPATH™ Series PS-6, or equivalent. The unit shall be stand alone power supply intended for powering fire alarm notification appliances via its own Notification Appliance Circuit(s) (NAC). The unit shall be UL 864 Listed for power limited operation of outputs and comply with NFPA 70 (NEC), article 760.

The power supply shall support a full 6A of notification power even if the battery is in a degraded mode and only AC power is connected.

The power supply shall be activated by a standard Notification Appliance Circuit (NAC) from any Fire Alarm Control Panel (FACP) or a "Dry contact" opening. The units shall be 6 ampere, 24 VDC, regulated and filtered, supervised remote power supply/charger. It shall operate over the voltage range of 8 to 33 VDC or FWR. The primary application of the unit shall be able to expand fire alarm system capabilities for additional NAC circuits to support ADA requirements and to provide auxiliary power to support system accessories or functions. The power supply shall provide four Class "B", two Class "A", or two Class "B" and one Class "A" NAC circuit(s). Eight Class "B" or Four Class "A" circuits shall be available with an optional PS-EXP module. The PS-6 unit shall supply up to 200 mA of auxiliary power that is available during both non-alarm and alarm or auxiliary power of not less than 2.5A at 24 VDC during non-alarm. The power supply shall be capable of charging batteries of up to 33 ampere hours per NFPA 72 at a maximum rate of 0.750 Amps per hour.

Input activation options shall be from not less than two NAC circuits or Dry Contact closures. These inputs shall have the capability of being directed to any combination of the four NAC circuit outputs. Each NAC circuit output shall be rated at 3 amperes for Class "B" applications or 3 amperes each for Class "A". The outputs shall be programmable to generate a steady or Temporal (Code 3) output and or a synchronized strobe or horn output. The power supply shall provide independent loop supervision for either Class "A" or Class "B" FACP NAC circuits and shall have the capability to "steer" all alarm or trouble conditions to either incoming NAC circuit. The units shall have common trouble terminals. The power supply shall be powered from a 120 VAC source with a current consumption of xx amperes max. The unit shall incorporate short circuit protection with auto reset. The power supply shall incorporate a built in battery charger for lead acid or gel type batteries with automatic switchover to battery back up in the event of AC power failure. The charger shall incorporate fused protection for the batteries and have the ability to report low battery and/or no battery condition(s). Standby current for battery back up shall be 0.130 Amps max. The power supply shall have the ability to latch trouble LED's so the circuit in trouble can be identified. The cabinet dimensions shall be 17"H x 13"W x 3.5"D.

⚠ WARNING: PLEASE READ THESE SPECIFICATIONS AND INSTALLATION INSTRUCTIONS CAREFULLY BEFORE USING, SPECIFYING OR APPLYING THIS PRODUCT. FAILURE TO COMPLY WITH ANY OF THESE INSTRUCTIONS, CAUTIONS AND WARNINGS COULD RESULT IN IMPROPER APPLICATION, INSTALLATION AND/OR OPERATION OF THESE PRODUCTS IN AN EMERGENCY SITUATION, WHICH COULD RESULT IN PROPERTY DAMAGE, AND SERIOUS INJURY OR DEATH TO YOU AND/OR OTHERS.

NOTE: Due to continuous development of our products, specifications and offerings are subject to change without notice in accordance with Wheelock Inc. standard terms and conditions.



WE ENCOURAGE AND SUPPORT NICET CERTIFICATION
1 YEAR WARRANTY

S9100 PS-6 & 8 06/11

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Industry's first LED Notification Appliances



Description:

The Wheelock® Exceder™ Series expands to include the industry's first LED notification appliances in one of the smallest, most compact single gang designs in the world. Cooper Notification's patented LED technology provides the industry's lowest current draw that allows for energy savings of 52%. Ideal for Green Buildings, it's the pinnacle of life safety, performance and energy-efficiency.

Using LED as the strobe light source is a technological breakthrough that does not require reflectors that are bulky in appearance. The patented design produces a highly controlled and even light distribution pattern.

About the size of a cell phone, Wheelock Exceder™ LED strobes, horn strobes and horns feature the industry's smallest footprint and a sleek modern design that will please building owners with reduced total cost of ownership. Installers will benefit from its comprehensive feature list, including lowest current draw, single-gang design, no tools needed for setting changes, and four convenient mounting options for both new and retrofit construction. These products are suitable for indoor wall-mount applications. The LST Strobe, LHS Horn/Strobe, and the LHN Horn are for 24V operation. LHN is suitable for 12V applications.

The Exceder™ LED notification appliances are listed under UL Standards 1971 and 464 and under CAN/ULC-S525 and CAN/ULC-S526. The appliances are Restriction of Hazardous Substances (RoHS) compliant and contain no mercury or other hazardous substances.

The Wheelock Exceder™ Series incorporates high reliability and high efficiency optics to minimize current draw allowing for a greater number of appliances on the notification appliance circuit and fewer power supplies. All strobe models feature a wide-range of candela settings (15, 30, 75, 110cd) on a single appliance. The 15 and 30 candela settings provide the lowest current draw in the industry. Models with an audible feature 2 sound settings (90 & 95 dB). All switches to change settings, can be set without the use of a tool and are located behind the appliance to prevent tampering.

Exceder LED Strobes and Horn Strobes may be synchronized when used in conjunction with the Wheelock DSM Sync Modules, Wheelock Power Supplies, SAFEPATH family of products or other manufacturers panels incorporating the Wheelock Patented Sync Protocol. Wheelock synchronized strobes offer an easy way to comply with ADA recommendations concerning photosensitive

* Compared to competitor models.

- Industry's first **LED** strobes and horn strobes
- **Lowest current draw** in the industry
- **Save up to 52% in current draw***

Features

- **Energy Efficient & Environmentally Friendly**
 - Patented LED technology provides industry's lowest current draw
 - Fewer power supplies required, smaller wire gage, reduced wire runs
 - Restriction of Hazardous Substances (RoHS)
- **Low-Profile Design**
 - One of the smallest, most compact single-gang designs
 - Sleek, modern aesthetics
 - No visible mounting screws
- **4 Field Selectable Settings in 1 Device**
 - Select 15, 30, 75, 110 cd
- **2 Audible Settings**
 - Select 90 or 95 dB
 - Select temporal or steady horn output
- **Easy-to-Install**
 - Finger slide switches - No tools needed for setting changes
 - Convenient mounting to LED backboxes, any single-gang backbox and to 4" square and double gang with adapter kit
 - In/out screw terminals for faster installation
 - #12 through #18 AWG terminals
- **Strobe Synchronization Components**
 - Meet stringent synchronizing standards with Wheelock's DSM Sync Modules, PS-6/8 Power Supplies or SAFEPATH products
- **Compliance**
 - UL 1971 and UL 464
 - ULC-S525 and ULC-S526
 - California State Fire Marshal (CSFM)
 - FCC Part 15, ICES

NOTE: All CAUTIONS and WARNINGS are identified by the symbol ▲. All warnings are printed in bold capital letters.

▲ WARNING: PLEASE READ THESE SPECIFICATIONS AND ASSOCIATED INSTALLATION INSTRUCTIONS CAREFULLY BEFORE USING, SPECIFYING OR APPLYING THIS PRODUCT. VISIT WWW.COOPERNOTIFICATION.COM OR CONTACT COOPER NOTIFICATION FOR THE CURRENT INSTALLATION INSTRUCTIONS. FAILURE TO COMPLY WITH ANY OF THESE INSTRUCTIONS, CAUTIONS OR WARNINGS COULD RESULT IN IMPROPER APPLICATION, INSTALLATION AND/OR OPERATION OF THESE PRODUCTS IN AN EMERGENCY SITUATION, WHICH COULD RESULT IN PROPERTY DAMAGE, AND SERIOUS INJURY OR DEATH TO YOU AND/OR OTHERS.

General Notes:

General Notes:

- Strobes are designed to flash at 1 flash per second.
- All candela ratings represent minimum effective strobe intensity based on UL Standard 1971.
- Series Exceder LED Strobe products are listed for indoor use with a temperature range of 32°F to 120°F (0°C to 49°C) and maximum humidity of 93%.
- Series Exceder LED horns are under UL Standard 464 for audible signal appliances (Indoor use only).

Low Current Draw = Fewer Power Supplies

Strobe Ratings					
		UL/ULC Max Current*			
		24 VDC			
Model	Regulated Voltage Range VDC	15	30	75	110
LST	16.0-33.0	0.032	0.045	0.128	0.246

Code 3 Horn Ratings			
Model	Regulated Voltage Range VDC	95 dB	90 dB
LHN	8.0-17.5	0.028	0.025
LHN	16.0-33.0	0.038	0.026

Code 3 Horn Strobe Ratings					
		UL/ULC Max Current* at Anechoic 95 dBA			
		24 VDC			
Model	Regulated Voltage Range VDC	15	30	75	110
LHS	16.0-33.0	0.040	0.051	0.146	0.258
		UL/ULC Max Current* at Anechoic 90 dBA			
		24 VDC			
Model	Regulated Voltage Range VDC	15	30	75	110
LHS	16.0-33.0	0.039	0.055	0.146	0.256



Specification & Ordering Information

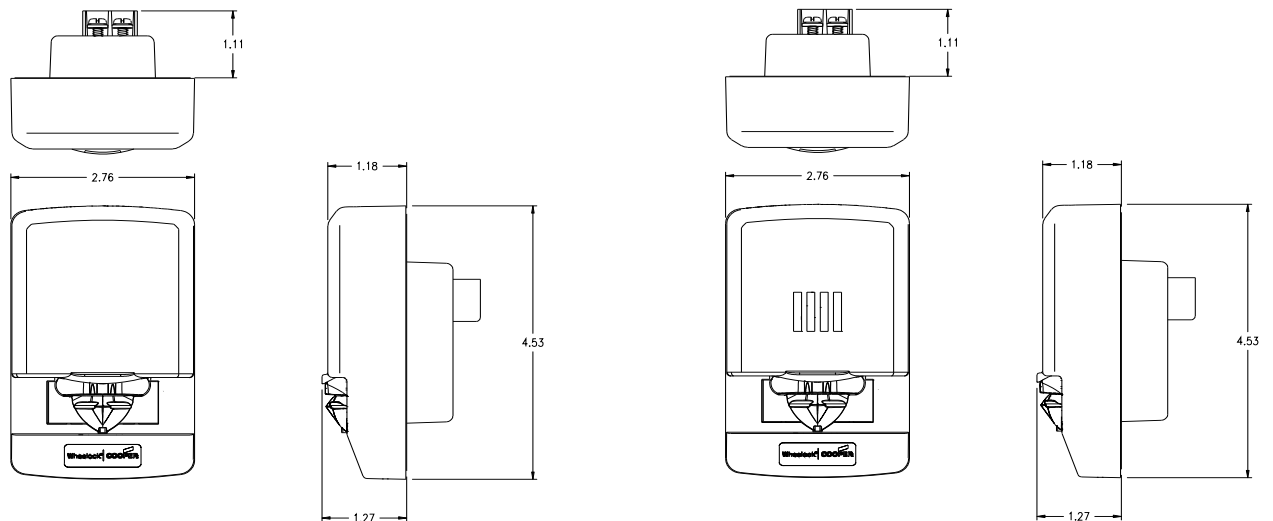
Easy to remember model codes	Model	Strobe Candela	Red	White	Sync w/ DSM or Wheelock Power Supplies	Model Legend LHN = Horn LST = Strobe LHS = Horn Strobe R = Red W = White
	Horn Strobes					
	LHSR	15/30/75/110	X		X	
	LHSW	15/30/75/110		X	X	
	Strobes					
	LSTR	15/30/75/110	X		X	
	LSTW	15/30/75/110		X	X	
	Horn					
	LHNR		X		X	
	LHNW			X	X	
Low-profile & sleek design	Accessories	Description				
	LSBB 2402	Exceder LED Backbox	X			
	LSBB 2403	Exceder LED Backbox		X		
	ESB-KIT 0533	Exceder LED Trim Plate Kit	X			
	ESB-KIT 0534	Exceder LED Trim Plate Kit		X		

* UL max current rating is the maximum RMS current within the listed voltage range (16-33 VDC for 24 VDC units). For strobes the UL max current is usually at the minimum listed voltage (16 VDC for 24 VDC units). For audibles the max current is usually at the maximum listed voltage (33 VDC for 24 VDC units). For unfiltered Full Wave Rectified ratings, see installation instructions.

Specifications

Physical	
Material	Red or white textured UV stabilized, colored impregnated engineered plastic. Exceeds 94V-0 UL flammability rating
Weight	0.35 lbs
Lens	Light Emitting Diode (LED) in a rugged Lexan lens
Dimensions	4.53"H x 2.76"W x 1.27"D Trimplate: 5.25" H x 4.58"W x 0.32 D
Operating Temperature	Indoor: 33.8°F to 120.2°F (0°C to 49°C) and maximum humidity of 93%
Mounting & Wire Connections	
Mounting (indoor only):	Strobes, horn strobes and horns are for wall-mount applications only. Single-gang and Exceder LED backboxes or to 4" square and double gang with adapter kit.
Wire Connections:	#12 through #18 AWG
Power & General	
Operating voltage	12 VDC: 8 - 17.5 VDC; 24 VDC: 16 - 33 VDC (12VDC LHN models only)
Strobe Output Rating	UL 1971, ULC S526: Selectable 15, 30, 75, 110 candela output
Strobe Flash Rate	Strobes are designed to flash at 1 flash per second
Synchronization Models	Strobes can be synchronized with Wheelock's DSM Sync Modules, PS-6/8 Power Supplies or SAFEPATH products, using Wheelock patented sync protocol
Temporal Audible Pattern	Selectable Continuous or Code 3 Horn tone: The Code 3 temporal pattern (1/2 second on, 1/2 second off, 1/2 second on, 1/2 second off, 1-1/2 off and repeat) is specified by ANSI and NFPA 72 for standard emergency evacuation signaling.

Drawings



STROBE

STROBE HORN

NOTE: Due to continuous development of our products, specifications and offerings are subject to change without notice in accordance with Cooper Wheelock Inc., dba Cooper Notification standard terms and conditions.

Architects and Engineers Specifications

The LED notification appliances shall be Wheelock® Exceder™ Series LHS Audible Strobe appliances, Series LST Visual Strobe appliances and Series LHN Audible appliances for wall-mount applications with a low-profile design or approved equals. The Series LHS and LST Strobes shall be listed for UL Standard 1971 (Emergency Devices for the Hearing-Impaired) for Indoor Fire Protection Service. The Series LHS and LHN Audibles shall be UL Listed under Standard 464 (Fire Protective Signaling). The Series shall be Restriction of Hazardous Substances (RoHS) compliant and contain no mercury or other hazardous substances. All Series shall meet the requirements of FCC Part 15. All inputs shall be compatible with standard reverse polarity supervision of circuit wiring by a Fire Alarm Control Panel (FACP) with the ability to operate from 16 to 33 VDC.

The Series LHS Audible Strobe and LST Strobe appliances shall produce a flash rate of one (1) flash per second over the Regulated Voltage Range and shall incorporate a Light Emitting Diode (LED) as the light source with a rugged Lexan® lens. The Series shall be of low current design. Where Multi-Candela appliances are specified, the strobe intensity shall have 4 field selectable settings at 15, 30, 75, 110, candela for wall mount applications. The selector switch for selecting the candela shall be tamper resistant. Appliances with candela settings shall show the candela selection in a visible location at all times when installed.

The audible shall have a minimum of two (2) field selectable settings for dBA levels and shall have a choice of continuous or temporal (Code 3) audible outputs.

The Series LHS Audible Strobe, LST Strobe and Series LHN Audible mounting options shall include LED backboxes, single-gang backbox and to 4" square and double gang with adapter kit. Two wire appliance wiring shall be capable of directly connecting to the mounting base. Continuity checking of the entire NAC circuit prior to attaching any notification appliances shall be allowed. Removal of an appliance shall result in a supervision fault condition by the Fire Alarm Control Panel (FACP). All notification appliances shall be backwards compatible.

The Series LHS, LHN and LST wall models shall have a low profile measuring 4.53"H x 2.76"W x 1.27"D.

When synchronization is required, the appliance shall be compatible with Wheelock®'s DSM Sync Modules, PS 6/8 Power Supplies, SAFEPATH products or other manufacturer's panels with built-in Wheelock® Patented Sync Protocol. The strobes shall not drift out of synchronization at any time during operation. If the sync protocol fails to operate, the strobe shall revert to a non-synchronized flash-rate and still maintain (1) flash per second over its Regulated Voltage Range. The appliance shall also be designed so that the audible signal may be silenced while maintaining strobe activation when used with Wheelock® patented sync protocol.

UL 1971, UL 464, ULC-S525, ULC-S526, CSFM, FCC, ICES, RoHS



WE ENCOURAGE AND SUPPORT NICET CERTIFICATION
3 YEAR WARRANTY

Exceder LED 7/12

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F: 941-487-2389

VA Location
103 West Broad Street, Suite 500
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Exceder LED Compatibility

While the enthusiasm in the industry to the new LED technology for Exceder appliances has been significant there seems to be questions regarding compatibility. To assist with this understanding please reference the information included within this document.

In all instances, there is no issue with the installation or operation of any Wheelock legacy strobes or current Exceder strobes on the same NAC circuit as Exceder LED strobes. Further there is no issue with Exceder LED strobes or other Wheelock strobes on our OEMs NAC circuits once UL has established compatibility between Exceder LED strobes and the OEM Fire Alarm Control Panel and booster power supplies.

There seems to be a general misunderstanding of design criteria and the definition of a circuit and a visual notification zone. All Wheelock conventional strobes and Exceder LED strobes may coexist on the same circuit. In instances where a conventional ceiling strobe or a high candela strobe must be used, it can be connected to the same circuit, but must be in a separate visual notification zone. As an example, in an office environment, office area strobes can be Exceder LED strobes and on the same circuit, other Wheelock high cd strobes or ceiling strobes used in rest rooms. One must always consider the difference between various visual notification zones in a facility. Using this design criteria will allow the designer to take advantage of the extremely low current draw of the LED Exceder strobe while using the same circuit to manage other Wheelock ceiling and high candela strobes in areas requiring their application.

While compatibility is being established thru UL in cooperation with our OEMs (in most cases a paperwork exercise only), full compatibility is now in place when using Wheelock power supplies and SAFEPATH. The use of Wheelock power supplies or our Wheelock sync module in Life Safety System design insures compatibility with all of our current OEMs today.

Diagram 1:
All Wheelock conventional strobes and Exceder LED strobes may coexist on the same circuit.

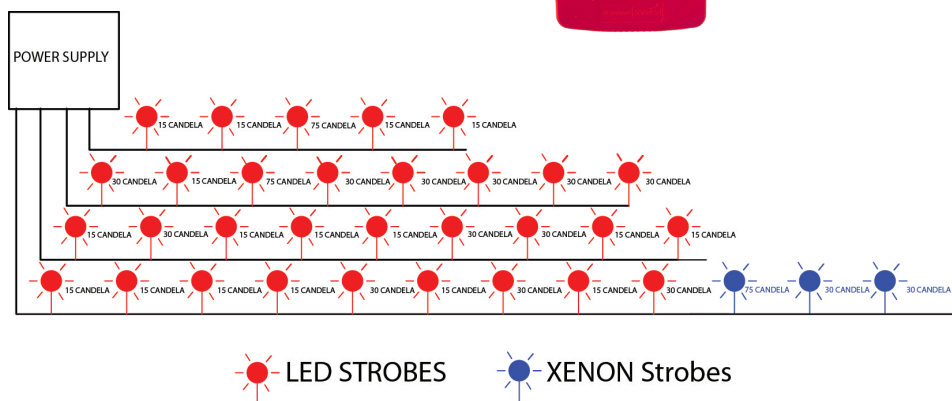


Diagram 2:
In instances where a conventional ceiling strobe or a high candela strobe must be used, it can be connected to the same circuit, but must be in a separate visual notification zone.

